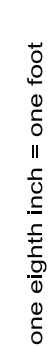


one eighth inch = one foot

6" 0



one eighth inch = one foot

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BAS POINTS LIST - ZONE CONTROLS (EXTERNAL TO AHU CONTROLS)													
BAS POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS				NETWORK COMMUNICATION	UNITS	GRAPHIC	REMARKS	NET POINT QTY
	AI	AO	DI	DO	AV	DV	SCHED	TREND	ALARM				
OUTDOOR AIR TEMPERATURE	1							1		°F	Y	-	1
OUTDOOR AIR ENTHALPY (HUMIDITY)	1							1		%RH	Y	-	1
ZONE PRESSURE MONITOR PANELS - QTY 7									7			INTEGRATE MONITORING PANELS/SUMMARY PANEL	7
PRESSURE MONITOR ALARM OVERRIDE KEY-SWITCH ACTIVATED	7									in w.g.	Y	POS (OR's), NEG (ISOL RM's) ALARM DISABLED	7
ZONE OCCUPANCY SENSOR	5							5		°F	Y	MULTI-TECHNOLOGY - COORD MOUNTING HIGH IN ROOM	5
ZONE TEMPERATURE	27							27		°F	Y	-	27
ZONE TEMPERATURE SETPOINT ADJUST	27									°F	Y	-	27
ZONE TEMPERATURE OVERRIDE			27							°F	Y	-	27
ZONE HEATING SETPOINT										°F	Y	-	0
ZONE COOLING SETPOINT										°F	Y	-	0
ZONE AIRFLOW SETPOINT		35			35					CFM	Y	OCCUPIED, UNOCCUPIED, SMOKE CONTROL	35
AIRFLOW CONTROL VALVE (SAV, EAV) AIRFLOW - ISOLATION ROOMS	4				4					CFM	Y	-	4
AIRFLOW CONTROL VALVE (SAV, EAV) DAMPER - ISOLATION ROOMS		4				4				%OPEN	Y	% OPEN FEEDBACK	4
AIR TERMINAL UNIT (TUS,TUR, TUE) AIRFLOW	20									CFM	Y	-	20
AIR TERMINAL UNIT (TUS, TUR, TUE) DAMPER		20								%OPEN	Y	% OPEN FEEDBACK	20
HEATING HOT WATER (REHEAT, UH, RAD) COIL CONTROL VALVE		27								%OPEN	Y	% OPEN FEEDBACK	27
REHEAT COIL LEAVING AIR TEMP	27									°F	Y	-	27
HEATING MODE (WARM-UP)							Y			-	-	SEE SEQUENCES-AC-8, AC-9, AC-10	0
SCHEDULE (OCCUPIED-UNOCCUPIED)							Y			-	Y	SEE SEQUENCES-AC-8, AC-9, AC-10	0
HIGH ZONE TEMP									27	°F	-	-	0
LOW ZONE TEMP									27	°F	-	-	0
HIGH REHEAT COIL DISCHARGE AIR TEMP									27	°F	-	-	0
LOW REHEAT COIL DISCHARGE AIR TEMP									27	°F	-	-	0
TEMP GAS STRG RM - (E)1S-EF-11 - START/STOP		1								-	Y	TEMP FAN-REMOVE/TURN OVER TO VAMC END OF PH6	1
TEMP GAS STRG RM - (E)1S-EF-11 - CURRENT STATUS	1								1	-	Y	TEMP FAN-REMOVE/TURN OVER TO VAMC END OF PH6	1
NEW GAS STRG RM - 1S-EF-20 - START/STOP		1								-	Y	-	1
1S-EF-20 - CURRENT STATUS (FAN FAULT)	1								1	-	Y	-	1
(E)1S-EF-16 - CURRENT STATUS (FAN FAULT)	1								1	-	Y	-	1

NOTES:
1. PROVIDE ANY ADDITIONAL POINTS REQUIRED TO ACHIEVE THE SEQUENCES OF OPERATION AND TO SATISFY THE DESIGN INTENT INDICATED BY CONTROL DIAGRAMS, PLANS AND SPECIFICATIONS. COORDINATE ALL INTEGRATION WITH EQUIPMENT MANUFACTURERS.

POINTS SUMMARY 1S-AHU-16																														
SYSTEM COMPONENT	Point ID	Applies To Both Base and Deductive Alternate Bids	Applies to Deductive Alternate Bid Only	Applies to Base Bid Only	Device Fail Position (O)- Open, (C)- Closed	System Outputs		System Inputs						System Software/Control							Digital Communications				Graphic Display	Trending		Remark		
						Binary	Analog	Binary	Analog	Binary	Analog	Binary	Analog	Binary	Analog	Alarm Processing		Application/Function					Operating Speed	Status					Fault	Amps Actual and Percent of Full Capacity (Amps)
																Electric	Pneumatic	Pneumatic	Status	Temperature	Pressure	Humidity								
HOA On/Off	HS	•					•										•									•				
Return Air Temperature	TT-1	•								•							78									•	•			
Return Air Humidity	MT-1	•												20	60											•				
Outside Air Temperature	TT-2	•								•																•				
Outside Air Humidity	MT-2	•																	•							•				
Mixed Air Temperature	TT-3	•								•							45				•					•				
Preheat Coil Leaving Temperature	TT-4	•								•							45	80				•				•				
Cooling Coil Leaving Temperature	TT-5	•								•								62								•				
Supply Air Temperature	TT-6	•								•								66								•		•		
Supply Air Humidity	MT-3	•																			•					•				
Supply Static Pressure	SPT-1	•									•											•				•				
Return Static Pressure	SPT-2	•									•											•				•				
Return Fan On/Off	SST-1	•					•											•								•				
Return Fan On/Off	SST-2	•					•											•								•				
Return Fan On/Off	SST-3	•					•											•								•				
Return Fan On/Off	SST-4	•					•											•								•				
Return Air Flow	FT-1	•																								•				
Return Air Flow	FT-2	•																								•				
Return Air Flow	FT-3	•																								•				
Return Air Flow	FT-4	•																								•				
Return Fan Speed	SC-1	•						•														•								
Return Fan Speed	SC-2	•						•														•								
Return Fan Speed	SC-3	•						•														•								
Return Fan Speed	SC-4	•						•														•								
Return Fan VFD	COMM	•										•											•	•	•	•	•	•		
Return Fan VFD	COMM	•										•											•	•	•	•	•	•		
Return Fan VFD	COMM	•										•											•	•	•	•	•	•		
Return Fan VFD	COMM	•										•											•	•	•	•	•	•		
Return Fan Isolation Damper	ZC-1	•			C	•																								
Return Fan Isolation Damper	ZC-2	•			C	•																								
Return Fan Isolation Damper	ZC-3	•			C	•																								
Return Fan Isolation Damper	ZC-4	•			C	•																								
Return Fan Damper End Switch	ZS-1	•							•									•								•				
Return Fan Damper End Switch	ZS-2	•							•									•								•				
Return Fan Damper End Switch	ZS-3	•							•									•								•				
Return Fan Damper End Switch	ZS-4	•							•									•								•				
Supply Fan On/Off	SST-5	•				•												•												
Supply Fan On/Off	SST-6	•				•												•												
Supply Fan On/Off	SST-7	•				•												•												
Supply Fan On/Off	SST-8	•				•												•												
Supply Air Flow	FT-5	•									•															•				
Supply Air Flow	FT-6	•									•															•				
Supply Air Flow	FT-7	•									•															•				
Supply Air Flow	FT-8	•									•															•				
Supply Fan Speed	SC-5	•					•															•								
Supply Fan Speed	SC-6	•					•															•								
Supply Fan Speed	SC-7	•					•															•								
Supply Fan Speed	SC-8	•					•															•								
Supply Fan VFD	COMM	•										•											•	•	•	•	•	•		
Supply Fan VFD	COMM	•										•											•	•	•	•	•	•		
Supply Fan VFD	COMM	•										•											•	•	•	•	•	•		
Supply Fan VFD	COMM	•										•											•	•	•	•	•	•		
Supply Fan Isolation Damper	ZC-5	•			C	•																								
Supply Fan Isolation Damper	ZC-6	•			C	•																								
Supply Fan Isolation Damper	ZC-7	•			C	•																								
Supply Fan Isolation Damper	ZC-8	•			C	•																								
Supply Fan Damper End Switch	ZS-5	•							•																	•				
Supply Fan Damper End Switch	ZS-6	•							•																	•				
Supply Fan Damper End Switch	ZS-7	•							•																	•				
Supply Fan Damper End Switch	ZS-8	•							•																	•				
Supply High Pressure	PSH-1	•																												
Return Low Pressure	PSL-1	•											•																	
Minimum Outside Air Damper	ZC-9	•			C		•																•							
Economizer Outside Air Damper	ZC-10	•			C		•												•	•										
Return Air Smoke Damper	SD	•			C	•																								
Return Air End Switch	ZS-10	•							•																	•				
Return Air Economizer Damper	ZC-11	•			O		•													•	•					•				
Supply Air Smoke Damper	SD	•			C	•																								
Supply Air End Switch	ZS-9	•							•																	•				
Exhaust Air Damper	ZC-12	•			C		•													•										
Preheat Steam Control Valve	TC-1	•			C		•												•											
Humidifier Capacity Control Valve	HC-1	•			C		•																•							
Humidifier Block Control Valve	HS-1	•			C	•																		•						
Cooling Coil Chilled Water Valve	TC-2	•			C		•													•										
Pre Filter Pressure Drop	PDS-1	•																0.5								•				
Intermediate Filter Pressure Drop	PDS-2	•																0.7								•				
HEPA Filter Pressure Drop	PDS-3	•																1.7								•				
Unit Heater Steam Control Valve	TC-3	•			O																						•			
Unit Heater Fan	SST-9	•																									•			
NOTE: NUMERICAL VALUES INDICATED ABOVE ARE SETPOINT VALUES.																														